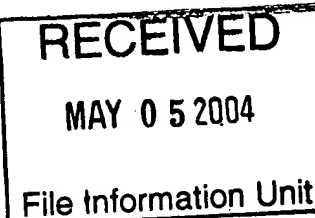


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US006656238B1

(12) **United States Patent**  
Rogers et al.

(10) Patent No.: **US 6,656,238 B1**  
(45) Date of Patent: **\*Dec. 2, 2003**

(54) **COAL-BASED CARBON FOAM**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 130 days.

This patent is subject to a terminal dis-  
claimer.

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(21) Appl. No.: **09/954,490**

(22) Filed: **Sep. 17, 2001**

**Related U.S. Application Data**

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Dec. 2, 1999.

(51) Int. Cl.<sup>7</sup> ..... **C10L 5/00**

(52) U.S. Cl. .... **44/620; 44/607; 44/628;**  
**264/29.1; 423/448; 423/460; 428/408**

(58) Field of Search ..... **44/620, 607, 628;**  
**201/35; 423/448, 460; 428/408; 264/29.1**

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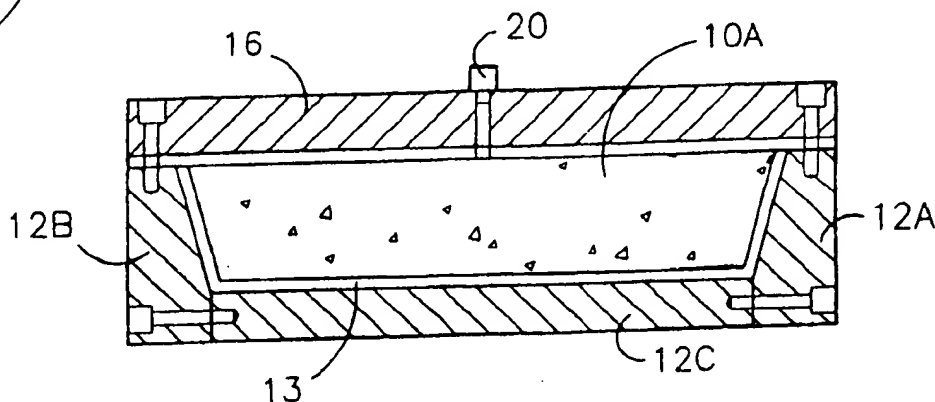
Primary Examiner—Margaret Medley

(74) Attorney, Agent, or Firm—McGuire Woods LLP

(57) **ABSTRACT**

A method for the manufacture of coal-based carbon foams from a coal particulate starting material that comprises blending from 1 to about 10% by weight of pitch with the coal particulate before foaming. Blends of coal-based particulate with 1 to about 10% by weight of pitch as well as coal-based carbon foams manufactured from such blends are also described.

**11 Claims, 2 Drawing Sheets**



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